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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 12/24/2008

Lisa K. Jorgenson, Esq. STMicroelectronics, Inc. 1310 Electronics Drive Carrollton, TX 75006 EXAMINER

NGUYEN, PHUONGCHAU BA

ART UNIT PAPER NUMBER

2416 DATE MAILED: 12/24/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,008	12/31/2003	Vijay N. Muthiah	03-SIN-091	9319

TITLE OF INVENTION: SYSTEM AND METHOD FOR SELECTING AN OPTIMAL TRANSPORT FORMAT COMBINATION USING PROGRESSIVE SET REDUCTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
Lisa K. Jorgens	7590 12/24 son, Esq.	/2008	Lbe	Certi	ficate Fee(s	of Mailing or Trans	deposited with the United	
STMicroelectror 1310 Electronics	Drive		Stat addi tran	es Postal Service wir essed to the Mail : smitted to the USPT	th suft Stop 1 O (57)	ficient postage for firs ISSUE FEE address () 273-2885, on the d	t class mail in an envelope above, or being facsimile ate indicated below.	
Carrollton, TX 7	5006						(Depositor's name)	
							(Signature)	
							(Date)	
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/24/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
NGUYEN, PHU	ONGCHAU BA	2416	370-474000					
	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach	nge of Correspondence	2. For printing on the p (I) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent atto listed, no name will be	3 registered patent vely, e firm (having as a r igent) and the names meys or agents. If no	nember	era 2		
	less an assignee is ident h in 37 CFR 3.11. Comp 3NEE	ified below, no assignee sletion of this form is NO	(B) RESIDENCE: (CITY	atent. If an assigned assignment. and STATE OR CO	UNT	RY)	ocument has been filed for	
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount p		o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.		
	s SMALL ENTITY state	is. See 37 CFR I.27.	b. Applicant is no lon	ger claiming SMALI	LENT	TTY status. See 37 Cl	FR 1.27(g)(2).	
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Lisa K. Jorgenson, Esq.			NGUYEN, PHUONGCHAU BA		
STMicroelectronic	s, Inc.	ART UNIT	PAPER NUMBER		
1310 Electronics Drive Carrollton, TX 75006			2416 DATE MAILED: 12/24/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 890 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 890 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/750 008 MUTHIAH, VIJAY N. Notice of Allowability Examiner Art Unit PHIONGCHALL BA NGLIYEN 2416 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 10-6-8. The allowed claim(s) is/are 2-26; Renumbered as 1-25 respectively. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/FIRMIN BACKER/

Supervisory Patent Examiner, Art Unit 2416

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Regarding claims 2-10, the prior art fails to teach for use in a wireless telecommunication system comprising a base station and a plurality of mobile stations, a method for selecting a best fit transport format combination (TFC) from a transport format combination set that is assigned to at least one mobile station by said base station, said method comprising the steps of: identifying TFC candidates in said transport format combination set that are not best fit candidates; deleting from said transport format combination set said TFC candidates that are not best fit candidates until a sole TFC candidate remains: identifying said sole remaining TFC candidate as a best fit TFC candidate; "iteratively applying at least one set reduction constraint to said transport format combination set; and deleting TFC candidates from said transport formation combination set that do not meet said at least one set reduction constraint," in combination with other limitations, as specified as, in the independent claim 2.

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Regarding claims 11–16, the prior art fails to teach for use in a wireless telecommunication system comprising a base station and a plurality of mobile stations, a method for selecting a best fit transport format combination (TFC) from a transport format combination set that is assigned to at least one mobile station by said base station, said method comprising the steps of: applying an iterative TFC selection algorithm to said transport format combination set to identify TFC candidates that are not best fit candidates; deleting from said transport format combination set said TFC candidates that are not best fit candidates until a sole TFC candidate remains; identifying said sole remaining TFC candidate as a best fit TFC candidate: "iteratively applying at least one set reduction constraint to said transport format combination set; and deleting TFC candidates from said transport formation combination set that do not meet said at least one set reduction constraint," in combination with other limitations, as specified as, in the independent claim 11.

Regarding claims 17–20, the prior art fails to teach for use in a wireless telecommunication system comprising a base station and a plurality of mobile stations, user equipment that is capable of selecting a best fit transport format

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combination (TFC) from a transport format combination set that is assigned to at least one mobile station by said base station, wherein said user equipment comprises: a protocol stack that identifies TFC candidates in said transport format combination set that are not best fit candidates; wherein said protocol stack deletes from said transport format combination set said TFC candidates that are not best fit candidates until a sole TFC candidate remains; wherein said protocol stack identifies said sole remaining TFC candidate as a best fit TFC candidate: wherein "said protocol stack iteratively applies at least one set reduction constraint to said transport format combination set; and wherein said protocol stack deletes TFC candidates from said transport formation combination set that do not meet said at least one set reduction constraint," in combination with other limitations, as specified as, in the independent claim 17.

Regarding claims 21–26, the prior art fails to teach for use in a wireless telecommunication system comprising a base station and a plurality of mobile stations, a method for minimizing a search time for selecting a best fit transport format combination (TFC) from a transport format combination set

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that is assigned to at least one mobile station by said base station, said method comprising the steps of: applying an iterative TFC selection algorithm to said transport format combination set to identify a TFC candidate that is a best fit candidate in said transport format combination set; iteratively reducing a size of said transport format combination set to a smaller size; iteratively searching said smaller size of said transport format combination set to identify best fit TFC candidates; "iteratively applying at least one set reduction constraint to said transport format combination set; and deleting TFC candidates from said transport formation combination set that to do not meet said at least one set reduction constraint," in combination with other limitations, as specified as, in the independent claim 21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUONGCHAU BA NGUYEN whose telephone number is (571)272–3148. The examiner can normally be reached on Monday–Friday from 8:30 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571–272–6703. The fax phone number for the organization where this application or proceeding is assigned is 571–273–8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866–217–9197 (toll-free). If you would like assistance from a USPTO Customer Service

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Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

/PHUONGCHAU BA NGUYEN/ Examiner, Art Unit 2416

/FIRMIN BACKER/ Supervisory Patent Examiner, Art Unit 2416